



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-10/970b/CEMENT/2015-16

Date: 09.10.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	Asst. Executive Engineer, Project Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* AGENCY	:	Technical Manager, KRIDL, Bangalore.
* NAME OF THE WORK	:	Providing chain link fencing to Chikkasandra Gundu topu, in Shettyhalli in Ward No.12, in Project Sub Division, in Ward No.12, BBMP, Bangalore.
* REFERENCE	:	BBMP/AEE/PSD/DZ/2012-13 Dated: 07.10.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	07.10.2015
PERIOD OF TESTING	:	07.10.2015 to 09.10.2015



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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- ⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-10/970b/SAND-Gradation/2015-16

: 09.10.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, Project Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* Agency : Technical Manager, KRIDL, Bangalore.
* Name of Work : Providing chain link fencing to Chikkasandra Gundu topu, in Shettyhalli in Ward No.12, in Project Sub Division, in Ward No.12, BBMP, Bangalore.
Reference : BBMP/AEE/PSD/DZ/2012-13 Dated: 07.10.2015
Technical Reference : IS : 2386 Part 1 - 1963 RA-2007
Sample ID : Fine Aggregates
Sample Received on : 07.10.2015
Date of Testing : 09.10.2015



Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.40	90-100	90-100	90-100	95-100
2.36	76.90	60-95	75-100	85-100	95-100
1.18	54.40	30-70	55-90	75-100	90-100
600 Micron	31.40	15-34	35-59	60-79	80-100
300 Micron	10.90	5-20	8-30	12-40	15-50
150 Micron	5.00	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-10/970b/AGG/GR/2015-16

: 09.10.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer : Asst. Executive Engineer, Project Sub Division, Dasarahalli Zone, BBMP, Bangalore.

* Agency : Technical Manager, KRIDL, Bangalore.

* Name of Work : Providing chain link fencing to Chikkasandra Gundu topu, in Shettyhalli in Ward No.12, in Project Sub Division, in Ward No.12, BBMP, Bangalore.

Reference : BBMP/AEE/PSD/DZ/2012-13 Dated: 07.10.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 07.10.2015

Date of Testing : 09.10.2015



Total Wt. of Aggregates in gms= 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.00	95-100	85-100
20	42.00	30-70	0-20
10	18.00	10-35	0-5
4.75	2.00	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.12/KRIDL/MS Angle/2015-16

21.10.2015

TEST REPORT ON STRUCTURAL STEEL

Customer : Asst. Executive Engineer, Project Sub Division, Dasarahalli Zone, BBMP, Bangalore.

Agency : Technical Manager, KRIDL, Bangalore.

Name of work : Providing chain link fencing to Chikkasandra Gundu topu, in Shettyhalli in Ward No.12, in Project Sub Division, in Ward No.12, BBMP, Bangalore.

Reference : BBMP/AEE/PSD/DZ/2012-13 Dated: 07.10.2015

Samples ID : Samples Supplied By Agency

Specimen Size : ISA-65X65X6mm (1m Length)



Sl.No	Description	Result
1	Thickness	6.04 mm
2	Width	65.0 mm
3	Weight / Meter	5.83 Kg

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Job No.: CTCE/BBMP/W.No.12/KRIDL/Fencing/2015-16

21.10.2015

TEST REPORT ON CHAIN LINK FENCING WIRE (8th Gauge)

Customer : Asst. Executive Engineer, Project Sub Division, Dasarahalli Zone, BBMP, Bangalore.

Agency : Technical Manager, KRIDL, Bangalore.

Name of work : Providing chain link fencing to Chikkasandra Gundu topu, in Shettyhalli in Ward No.12, in Project Sub Division, in Ward No.12, BBMP, Bangalore.

Reference : BBMP/AEE/PSD/DZ/2012-13 Dated: 07.10.2015

Samples ID : Samples Supplied By Agency



Sl.No	Description	Result
1	Diameter	4.02 mm
2	Internal Spacing	50 mm X 50 mm
3	Weight / Meter (1m x 1m)	4.180 Kg

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Job No.: CTCE/BBMP/W.No.12/KRIDL/MS Pipe/2015-16

21.10.2015

TEST REPORT ON M.S PIPE (38mm Dia)

Customer : Asst. Executive Engineer, Project Sub Division, Dasarahalli Zone, BBMP, Bangalore.

Agency : Technical Manager, KRIDL, Bangalore.

Name of work : Providing chain link fencing to Chikkasandra Gundu topu, in Shettyhalli in Ward No.12, in Project Sub Division, in Ward No.12, BBMP, Bangalore.

Reference : BBMP/AEE/PSD/DZ/2012-13 Dated: 07.10.2015

Specimen Size : M.S Pipe 38mm Dia



PHYSICAL TEST

Sl.No	Description	Result
1	Thickness	2.02 mm
2	Inner Diameter	38.06 mm
3	Outer Diameter	42.10 mm
4	Weight / Meter	1.890 kg

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-10/970b/CUBE/2015-16

23.11.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Project Sub Division, Dasarahalli Zone, BBMP, Bangalore.
- * Agency : Technical Manager, KRIDL, Bangalore.
- * Name of the work : Providing chain link fencing to Chikkasandra Gundu topu, in Shettyhalli in Ward No.12, in Project Sub Division, in Ward No.12, BBMP, Bangalore.
- * Reference : BBMP/AEE/PSD/DZ/2012-13 Dated: 07.10.2015
- * Sample ID : Cement Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀
- Compressive Strength as on : 28th day
- Sample Received on : 23.11.2015



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	26.10.2015	23.11.2015	8.135	478.3	21.26
2	26.10.2015	23.11.2015	8.205	499.6	22.20
3	26.10.2015	23.11.2015	8.322	522.3	23.21

* Information is furnished by the Customer/Representative

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Handwritten signature in green ink

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